Title: the difficulty of simple exclusion
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Abs: the simple exclusion process follows a collection of particles on Z, moving to nearest neighbors with rates p and q, except that jumps to occupied sites are suppressed. This a model of traffic on a one lane road. We consider two types of questions in this process. 1. What sort of motion does a bird see flying far above the road? 2. How does a distinguished particle navigate traffic?
We go through some of the known results before discussing open problems.